

Cationic polymers and their use

Abstract

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Cationic polymers are obtainable by free-radical copolymerization of

(a) from 50 to 70% by weight of one or more monomers of the formula I

$$\begin{array}{c|c}
R^1 \\
CH_2 & R^2
\end{array}$$

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$$X = O, NR^1,$$

$$R^1 = H, C_1-C_8-alkyl,$$

$$R^2$$
 = tert-butyl,

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(b) from 5 to 45% by weight of one or more monomers of the formula II

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$$CH_2$$
 N
 O
 $(CH_2)_n$

where n = 1 to 3,

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- (c) from 5 to 40% by weight of a monoethylenically unsaturated monomer having at least one amine-containing group,
- (d) from 0 to 5% by weight of a polyalkylene oxide-containing
 silicone derivative,

where up to 40% by weight, based on (a), (b), (c) and (d), of the monomer (a) can be replaced by a monomer of the formula I where $R^2 = C_2-C_{22}-alkyl$.

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